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NETWORKS, LINES AND FIELDS

MICROWAVE TECHNIQUES :TRANSMISSION LINES

New Age International This Book Is Intended To Serve As A Textbook For A First Course In Microwave Engineering Which, Today, Is Included In The Engineering Undergraduate Curricula Of Almost All Universities And Institutions Of Higher Learning. This Book Is An Outgrowth Of The Classroom Lectures That The Author Has Been Giving At The Indian Institute Of Science, Bangalore, For Over Three Decades. It Attempts To Discuss The Basic Microwave Techniques, Starting With Transmission Lines. Throughout The Book, Emphasis Has Been Laid On Physical Principles. This Book Would Be Equally Useful To Postgraduates, Research Students And Practising R & D Engineers, For Self-Study And Also For Reference To Acquire A Better Understanding Of The Fundamentals Of Microwave Engineering.Complete Numerical/Analytical Solutions Of Some Typical Problems, And Sets Of Exercises With Answers, Have Been Given At The End Of Each Chapter. A Distinctive Feature Of This Book Is That All The Drawings And Graphs/Curves Are Computer-Generated Using Data Of Some Typical Practical Lines. Low Frequency Telephone And Telegraph Lines Have Also Been Discussed To A Fairly Good Depth.

REFERENCE DATA FOR ENGINEERS

RADIO, ELECTRONICS, COMPUTERS AND COMMUNICATIONS

Newnes This standard handbook for engineers covers the fundamentals, theory and applications of radio, electronics, computers, and communications equipment. It provides information on essential, need-to-know topics without heavy emphasis on complicated mathematics. It is a "must-have" for every engineer who requires electrical, electronics, and communications data. Featured in this updated version is coverage on intellectual property and patents, probability and design, antennas, power electronics, rectifiers, power supplies, and properties of materials. Useful information on units, constants and conversion factors, active filter design, antennas, integrated circuits, surface acoustic wave design, and digital signal processing is also included. This work also offers new knowledge in the fields of satellite technology, space communication, microwave science, telecommunication, global positioning systems, frequency data, and radar.

ORIENTALISM

WESTERN CONCEPTIONS OF THE ORIENT

Penguin UK 'A stimulating, elegant yet pugnacious essay'—Observer In this highly acclaimed seminal work, Edward Said surveys the history and nature of Western attitudes towards the East, considering Orientalism as a powerful European ideological creation—a way for writers, philosophers and colonial administrators to deal with the 'otherness' of Eastern culture, customs and beliefs. He traces this view through the writings of Homer, Nerval and Flaubert, Disraeli and Kipling, whose imaginative depictions have greatly contributed to the West's romantic and exotic picture of the Orient. In the Afterword, Said examines the effect of continuing Western imperialism.

PYOMO – OPTIMIZATION MODELING IN PYTHON

Springer Science & Business Media This book provides a complete and comprehensive reference/guide to Pyomo (Python Optimization Modeling Objects) for both beginning and advanced modelers, including students at the undergraduate and graduate levels, academic researchers, and practitioners. The text illustrates the breadth of the modeling and analysis capabilities that are supported by the software and support of complex real-world applications. Pyomo is an open source software package for formulating and solving large-scale optimization and operations research problems. The text begins with a tutorial on simple linear and integer programming models. A detailed reference of Pyomo's modeling components is illustrated with extensive examples, including a discussion of how to load data from data sources like spreadsheets and databases. Chapters describing advanced modeling capabilities for nonlinear and stochastic optimization are also included. The Pyomo software provides familiar modeling features within Python, a powerful dynamic programming language that has a very clear, readable syntax and intuitive object orientation. Pyomo includes Python classes for defining sparse sets, parameters, and variables, which can be used to formulate algebraic expressions that define objectives and constraints. Moreover, Pyomo can be used from a command-line interface and within Python's interactive command environment, which makes it easy to create Pyomo models, apply a variety of optimizers, and examine solutions. The software supports a different modeling approach than commercial AML (Algebraic Modeling Languages) tools, and is designed for flexibility, extensibility, portability, and maintainability but also maintains the central ideas in modern AMLs.

THE WEALTH OF NETWORKS

HOW SOCIAL PRODUCTION TRANSFORMS MARKETS AND FREEDOM

Yale University Press Describes how patterns of information, knowledge, and cultural production are changing. The author shows that the way information and knowledge are made available can either limit or enlarge the ways people create and express themselves. He describes the range of legal and policy choices that confront.

DOING INTERNET RESEARCH

CRITICAL ISSUES AND METHODS FOR EXAMINING THE NET

SAGE Publications The Internet is a medium with great consequences for social and economic life. This book is written to help people discern in what ways it has commanded the public imagination, and the methodological issues that arise when one tries to study and understand the social processes occurring within it. The contributors offer original responses in the search for, and critique of, methods with which to study the Internet and the social, political, economic, artistic, and communicative phenomena occurring within and around it.

PYTHON DATA SCIENCE HANDBOOK

ESSENTIAL TOOLS FOR WORKING WITH DATA

"O'Reilly Media, Inc." For many researchers, Python is a first-class tool mainly because of its libraries for storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use: IPython and Jupyter: provide computational environments for data scientists using Python NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas: features the DataFrame for efficient storage and manipulation of labeled/columnar data in Python Matplotlib: includes capabilities for a flexible range of data visualizations in Python Scikit-Learn: for efficient and clean Python implementations of the most important and established machine learning algorithms

AN ARTIFICIAL TRANSMISSION LINE FOR STUDIES OF TRANSIENT PROPAGATION IN PLASMA MEDIA

A lumped circuit transmission line which simulates a plasma was developed. Analogies were established by comparing the equations for the propagation of voltage in the line and the propagation of electromagnetic waves in dispersive media. The network simulated the one-dimensional isotropic case in which the plasma was linear, homogeneous and lossless. Both bounded and unbounded plasmas were considered. The transient reflected and transmitted response was measured for the step carrier sine wave, the step function and the impulse inputs. Phenomena such as ringing and time delay were observed, both of which are related to the plasma frequency. Methods of obtaining plasma slab thicknesses were also investigated. (Author).

ALTERNATING CURRENTS AND NETWORK ANALYSIS

RED LINES, BLACK SPACES

THE POLITICS OF RACE AND SPACE IN A BLACK MIDDLE-CLASS SUBURB

Yale University Press Runyon Heights, a community in Yonkers, New York, has been populated by middle-class African Americans for nearly a century. This book—the first history of a black middle-class community—tells the story of Runyon Heights, which sheds light on the process of black suburbanization and the ways in which residential development in the suburbs has been shaped by race and class. Relying on both interviews with residents and archival research, Bruce D. Haynes describes the progressive stages in the life of the community and its inhabitants and the factors that enabled it to form in the first place and to develop solidarity, identity and political consciousness. He shows how residents came to recognize common political interests within the community, how racial consciousness provided an axis for social solidarity as well as partial insulation from racial slights, and how the suburb afforded these middle-class residents a degree of physical and social distance from the ghetto. As Haynes explores the history of Runyon Heights, we learn the ways in which its black middle class dealt with the tensions between the political interests of race and the material interests of class.

MULTIMEDIA MULTICAST ON THE INTERNET

John Wiley & Sons This book examines multicast technology and will be a key text forundergraduate engineering students and master students in networksand telecoms. However, it will be equally useful for a wide rangeof professionals in this research field. Multicast routing was introduced with the advent of multipartyapplications (for example, videoconferencing on the Internet) andcollaborative work (for example, distributed simulations). It isrelated to the concept of group communication, a techniqueintroduced to reduce communication costs. The various problems of multicast routing on the Internet areexamined in detail. They include: group membership management,quality of service, reliability, safety, scalability and transport.Throughout the text, several protocols are introduced in order toanalyze, compare and cover the various aspects of multicastrouting.

SARAH

THE LIFE OF SARAH BERNHARDT

Yale University Press Everything about Sarah Bernhardt is fascinating, from her obscure birth to her glorious career--redefining the very nature of her art--to her amazing (and highly public) romantic life, to her indomitable spirit. Well into her seventies, after the amputation of her leg, she was performing under bombardment for soldiers during World War I and toured America for the ninth time. Though the Bernhardt literature is vast, this is the first English-language biography to appear in decades, tracking the trajectory through which an illegitimate--and scandalous--daughter of a Jewish courtesan transformed herself into the most famous actress who ever lived, and into a national icon, a symbol of France.--From publisher description.

ELECTRONICS

June issues, 1941-44 and Nov. issue, 1945, include a buyers' guide section.

THE TYRANNY OF METRICS

Princeton University Press Today, organizations of all kinds are ruled by the belief that the path to success is quantifying human performance, publicizing the results, and dividing up the rewards based on the numbers. But in our zeal to instill the evaluation process with scientific rigor, we've gone from measuring performance to fixating on measuring itself. The result is a tyranny of metrics that threatens the quality of our lives and most important institutions. In this timely and powerful book, Jerry Muller uncovers the damage our obsession with metrics is causing--and shows how we can begin to fix the problem. Filled with examples from education, medicine, business and finance, government, the police and military, and philanthropy and foreign aid, this brief and accessible book explains why the seemingly irresistible pressure to quantify performance distorts and distracts, whether by encouraging "gaming the stats" or "teaching to the test." That's because what can and does get measured is not always worth measuring, may not be what we really want to know, and may draw effort away from the things we care about. Along the way, we learn why paying for measured performance doesn't work, why surgical scorecards may increase deaths, and much more. But metrics can be good when used as a complement to--rather than a replacement for--judgment based on personal experience, and Muller also gives examples of when metrics have been beneficial. Complete with a checklist of when and how to use metrics, The Tyranny of Metrics is an essential corrective to a rarely questioned trend that increasingly affects us all.

RADIO & TELEVISION NEWS

Some issues, Aug. 1948-1954 are called: Radio-electronic engineering edition, and include a separately numbered and paged section: Radio-electronic engineering (issued separately Aug. 1954-May 1955).

LIVES OF THE NOVELISTS

A HISTORY OF FICTION IN 294 LIVES

Yale University Press No previous author has attempted a book such as this: a complete history of novels written in the English language, from the genre's seventeenth-century origins to the present day. In the spirit of Dr. Johnson's Lives of the Poets, acclaimed critic and scholar John Sutherland selects 294 writers whose works illustrate the best of every kind of fiction—from gothic, penny dreadful, and pornography to fantasy, romance, and high literature. Each author was chosen, Professor Sutherland explains, because his or her books are well worth reading and are likely to remain so for at least another century. Sutherland presents these authors in chronological order, in each case deftly combining a lively and informative biographical sketch with an opinionated assessment of the writer's work. Taken together, these novelists provide both a history of the novel and a guide to its rich variety. Always entertaining, and sometimes shocking, Sutherland considers writers as diverse as Daniel Defoe, Henry James, James Joyce, Edgar Allan Poe, Virginia Woolf, Michael Crichton, Jeffrey Archer, and Jacqueline Susann. Written for all lovers of fiction, Lives of the Novelists succeeds both as introduction and re-introduction, as Sutherland presents favorite and familiar novelists in new ways and transforms the less favored and less familiar through his relentlessly fascinating readings.

DEEP LEARNING ON GRAPHS

Cambridge University Press A comprehensive text on foundations and techniques of graph neural networks with applications in NLP, data mining, vision and healthcare.

RADIO-ELECTRONICS

ELECTRONICS WORLD

Some issues, Aug. 1943-Apr. 1954, are called Radio-electronic engineering ed. (called in 1943 Radionics ed.) which include a separately paged section: Radio-electronic engineering (varies) v. 1, no. 2-v. 22, no. 7 (issued separately Aug. 1954-May 1955).

RADIO & TV NEWS

Some issues, Aug. 1948-1954 are called: Radio-electronic engineering edition, and include a separately numbered and paged section: Radio-electronic engineering (issued separately Aug. 1954-May 1955).

VOCATION ACROSS THE ACADEMY

A NEW VOCABULARY FOR HIGHER EDUCATION

Oxford University Press Although the language of vocation was born in a religious context, the contributors in this volume

demonstrate that it has now taken root within the broad framework of higher education and has become intertwined with a wide range of concerns. This volume makes a compelling case for vocational reflection and discernment in undergraduate education today, arguing that it will encourage faculty and students alike to venture out of their narrow disciplinary specializations and to reflect on larger questions of meaning and purpose. In conversation with a growing range of scholarly resources, these essays advance the cause of vocational reflection and discernment well beyond its occasional mention in general education courses and career placement offices. The book's thirteen contributors all work in higher education, but they do so as biologists and musicians, sociologists and engineers, doctors and lawyers, college presidents and deans, and scholars of history, literature, and business administration. Together, they demonstrate that vocation has an important role to play across the entire range of traditional academic disciplines and applied fields. Regardless of major, all undergraduates need to consider their current and future responsibilities, determine the stories they will live by, and discover resources for addressing the tensions that will inevitably arise among their multiple callings. Vocation across the Academy will help to reframe current debates about the purpose of higher education. It underscores the important role that colleges and universities can play in encouraging students to reflect more deeply on life's most persistent questions and to consider how they might best contribute to the common good.

THE HISTORY OF THE STANDARD OIL COMPANY

Library of Alexandria

TECHNICAL BOOK REVIEW

PAUL MELLON'S LEGACY

A PASSION FOR BRITISH ART : MASTERPIECES FROM THE YALE CENTER FOR BRITISH ART

Yale University Press Paul Mellon (1907--1999) was an unparalleled collector of British art. His collection, now at Yale in the museum and study center he founded to house it, rivals those in Britain's national museums and is unquestionably the most comprehensive representation of British art held outside of the United Kingdom. This book and the exhibition that it accompanies celebrate the centenary of his birth. Five introductory essays examine Mellon's extraordinary collecting activity, as well as his role in creating both the Yale Center for British Art and the Paul Mellon Centre for Studies in British Art in London as gifts to his alma mater (Yale 1929). A lavishly illustrated catalogue section showcases 148 of the most exquisite and important paintings, watercolors, drawings, prints, sculpture, rare books, and manuscript material in the Yale Center's collection, including major works by Thomas Gainsborough, Joshua Reynolds, George Stubbs, John Constable, and J. M. W. Turner.

PUBLIC TRANSPORT

PLANNING THE NETWORKS

ENGINEERING EDUCATION

AERONAUTICAL ENGINEERING REVIEW

ELECTRICAL MANUFACTURING

THE SACRED NETWORK

MEGALITHS, CATHEDRALS, LEY LINES, AND THE POWER OF SHARED CONSCIOUSNESS

Simon and Schuster How sacred sites amplify the energies of consciousness, the earth, and the universe • Examines the web of geometrical patterns linking sacred sites worldwide, with special focus on the sacred network of ley lines in Paris • Unveils the coming state of shared consciousness for humanity fueled by the sacred network • Reveals how consciousness is a tangible form of energy First marked by the standing stones of our megalithic ancestors, the world's sacred sites are not only places of spiritual energy but also hubs of cosmic energy and earthly energy. Generation upon generation has recognized the power of these sites, with the result that each dominant culture builds their religious structures on the same spots--the Cathedral of Notre Dame in Paris, for example, was constructed over a Temple to Diana that in turn had been built over a stone pillar worshipped by the Gauls. In The Sacred Network, Chris Hardy shows how the world's sacred sites coincide with the intersections of energetic waves from the earth's geomagnetic field and how--via their megaliths, temples, and steeples--these sites act as antennae for the energies of the cosmos. Delving deeply in to Paris's sacred network, she also explores the intricate geometrical patterns created by the alignments of churches and monuments, such as pentagrams and Stars of David. Revealing that consciousness is a tangible energy, she explains how the sacred network is fueling an 8,000-year evolutionary cycle initiated by our megalithic ancestors that will soon culminate in a new state of shared consciousness for humanity.

PRINCIPLES OF SYNCHRONOUS DIGITAL HIERARCHY

CRC Press The book presents the current standards of digital multiplexing, called synchronous digital hierarchy, including analog multiplexing technologies. It is aimed at telecommunication professionals who want to develop an understanding of digital multiplexing and synchronous digital hierarchy, in particular, and the functioning of practical telecommunication systems, in general. The text includes all relevant fundamentals and provides a handy reference for problem solving or defining operations and maintenance strategies. The author covers digital conversion and TDM principles, line coding and digital modulation, signal impairments, and synchronization, as well as emerging systems.

ELECTRO TECHNOLOGY NEWSLETTER

ON COLOR

Yale University Press Our lives are saturated by color. We live in a world of vivid colors, and color marks our psychological and social existence. But for all color's inescapability, we don't know much about it. Now authors David Scott Kastan and Stephen Farthing offer a fresh and imaginative exploration of one of the most intriguing and least understood aspects of everyday experience. Kastan and Farthing, a scholar and a painter, respectively, investigate color from numerous perspectives: literary, historical, cultural, anthropological, philosophical, art historical, political, and scientific. In ten lively and wide-ranging chapters, each devoted to a different color, they examine the various ways colors have shaped and continue to shape our social and moral imaginations. Each individual color becomes the focal point for a consideration of one of the extraordinary ways in which color appears and matters in our lives. Beautifully produced in full color, this book is a remarkably smart, entertaining, and fascinating guide to this elusive topic.

PUBLISHERS' CIRCULAR AND BOOKSELLERS' RECORD OF BRITISH AND FOREIGN LITERATURE

APPLICATION OF FOSTER'S REACTANCE THEOREM TO THE DESIGN OF ELECTRIC WAVE FILTERS

R FOR DATA SCIENCE

IMPORT, TIDY, TRANSFORM, VISUALIZE, AND MODEL DATA

"O'Reilly Media, Inc." Learn how to use R to turn raw data into insight, knowledge, and understanding. This book introduces you to R, RStudio, and the tidyverse, a collection of R packages designed to work together to make data science fast, fluent, and fun. Suitable for readers with no previous programming experience, R for Data Science is designed to get you doing data science as quickly as possible. Authors Hadley Wickham and Garrett Grolemund guide you through the steps of importing, wrangling, exploring, and modeling your data and communicating the results. You'll get a complete, big-picture understanding of the data science cycle, along with basic tools you need to manage the details. Each section of the book is paired with exercises to help you practice what you've learned along the way. You'll learn how to: Wrangle—transform your datasets into a form convenient for analysis Program—learn powerful R tools for solving data problems with greater clarity and ease Explore—examine your data, generate hypotheses, and quickly test them Model—provide a low-dimensional summary that captures true "signals" in your dataset Communicate—learn R Markdown for integrating prose, code, and results

FUNDAMENTALS OF DIGITAL CIRCUITS

PHI Learning Pvt. Ltd. The Fourth edition of this well-received text continues to provide coherent and comprehensive coverage of digital circuits. It is designed for the undergraduate students pursuing courses in areas of engineering disciplines such as Electrical and Electronics, Electronics and Communication, Electronics and Instrumentation, Telecommunications, Medical Electronics, Computer Science and Engineering, Electronics, and Computers and Information Technology. It is also useful as a text for MCA, M.Sc. (Electronics) and M.Sc. (Computer Science) students. Appropriate for self study, the book is useful even for AMIE and grad IETE students. Written in a student-friendly style, the book provides an excellent introduction to digital concepts and basic design techniques of digital circuits. It discusses Boolean algebra concepts and their application to digital circuitry, and elaborates on both combinational and sequential circuits. It provides numerous fully worked-out, laboratory tested examples to give students a solid grounding in the related design concepts. It includes a number of short questions with answers, review questions, fill in the blanks with answers, multiple choice questions with answers and exercise problems at the end of each chapter.

PROCEEDINGS

THE FOURTH INDUSTRIAL REVOLUTION

Penguin UK The founder and executive chairman of the World Economic Forum on how the impending technological revolution will change our lives We are on the brink of the Fourth Industrial Revolution. And this one will be unlike any other in human history. Characterized by new technologies fusing the physical, digital and biological worlds, the Fourth Industrial Revolution will impact all disciplines, economies and industries - and it will do so at an unprecedented rate. World Economic Forum data predicts that by 2025 we will see: commercial use of nanomaterials 200 times stronger than steel and a million times thinner than human hair; the first transplant of a 3D-printed liver; 10% of all cars on US roads being driverless; and much more besides. In The Fourth Industrial Revolution, Schwab outlines the key technologies driving this revolution, discusses the major impacts on governments, businesses, civil society and individuals, and offers bold ideas for what can be done to shape a better future for all.

THE MAKING OF ASSISI

THE POPE, THE FRANCISCANS AND THE PAINTING OF THE BASILICA

For a moment at the close of the 13th century the town of Assisi was the focus for the two greatest powers in the Latin church. The election of Nicholas IV was the catalyst for the creation of frescoes in the Basilica of San Francesco. In this book the authors investigate the particular moment the frescoes were made casting new light on their patronage and iconography.